



PTO/SB/21 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Application Number	10/694,144
Filing Date	10/27/2003
First Named Inventor	Stephen J. Estrop
Group Art Unit	2613
Examiner Name	
Attorney Docket Number	MS1-1679US

Total Number of Pages in This Submission

**ENCLOSURES (check all that apply)**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><br><input type="checkbox"/> Amendment / Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Documents<br><br><input type="checkbox"/> Response to Missing Parts/<br>Incomplete Application<br><br><input type="checkbox"/> Response to Missing Parts<br>under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a<br>Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence<br>Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) | <input type="checkbox"/> After Allowance Communication<br>to Group<br><input type="checkbox"/> Appeal Communication to Board<br>of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group<br>( <i>Appeal Notice, Brief, Reply Brief</i> )<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please<br>identify below):<br>PTO Form 1449; 21 cited<br>references; return postcard |
|--|---|--|

Remarks

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual Name	David M. Huntley, Reg. No. 40309
Signature	<i>David M. Huntley</i>
Date	1/14/2005

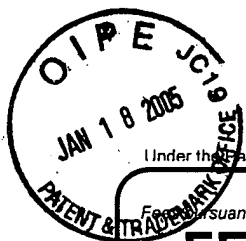
**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Carly Taylor		
Signature	<i>Carly Taylor</i>	Date	1/14/05

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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PTO/SB/17 (12-04)

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Effective on 12/08/2004.

Fee schedule pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 0.00

**Complete if Known**

Application Number	10/694,144
Filing Date	10/27/2003
First Named Inventor	Stephen J. Estrop
Examiner Name	
Art Unit	2613
Attorney Docket No.	MS1-1679US

**METHOD OF PAYMENT** (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_☒ Deposit Account Deposit Account Number: 12-0769 Deposit Account Name: Lee & Hayes, PLLC

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

**Total Claims**      **Extra Claims**      **Fee (\$)**      **Fee Paid (\$)**

\_\_\_\_\_ - 20 or HP = \_\_\_\_\_ x 50 = \_\_\_\_\_

HP = highest number of total claims paid for, if greater than 20

**Indep. Claims**      **Extra Claims**      **Fee (\$)**      **Fee Paid (\$)**

\_\_\_\_\_ - 3 or HP = \_\_\_\_\_ x 200 = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3

**Multiple Dependent Claims****Fee (\$)**      **Fee Paid (\$)**

\_\_\_\_\_

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
_____ - 100 = _____	_____ / 50 = _____	(round up to a whole number)	x _____	= _____

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other: \_\_\_\_\_

**Fees Paid (\$)**

\_\_\_\_\_

\_\_\_\_\_

**SUBMITTED BY**

Signature	<i>David M. Huntley</i>	Registration No. 40309 (Attorney/Agent)	Telephone (509) 324-9256
Name (Print/Type)	David M. Huntley		Date 1/14/2005

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No. ....10/694,144  
Filing Date ..... 10/27/2003  
Confirmation No.....3277  
Inventorship .....Stephen J. Estrop  
Applicant ..... Microsoft Corporation  
Group Art Unit .....2613  
Examiner .....  
Attorney's Docket No. .... MS1-1679US  
Title: Bandwidth-Efficient Processing of Video Images

**INFORMATION DISCLOSURE STATEMENT**

*References -- See Attached Form PTO-1449*

**REMARKS**

The citations listed, copies attached, are submitted in compliance with the duty of disclosure defined in 37 CFR §1.56. The Examiner is requested to make these citations of official record in this application.

Respectfully Submitted,

Date: 1/14/2005

By: David M. Huntley  
David M. Huntley  
Reg. No. 40309



PTO/SB/08A (08-03)

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/694,144		
		Filing Date	10/27/2003		
		First Named Inventor	Stephen J. Estrop		
		Art Unit			
Sheet	1	of	3	Examiner Name	
				Attorney Docket Number	MS1-1679US

U.S. PATENT DOCUMENTS						
Examiner Initials'	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
		US- 5,715,459		02-03-1998	Celi, Jr. et al.	
		US- 5,936,632		08-10-1999	Cunniff et al.	
		US- 6,269,484		07-31-2001	Simsic et al.	
		US- 6,295,068		09-25-2001	Peddada et al.	
		US-6,323,875		11-27-2001	Millman et al.	
		US- 5,742,797		04-21-1998	Celi, Jr. et al.	
		US- 5,757,386		05-26-1998	Celi, Jr et al.	
		US- 5,872,956		02-16-1999	Beal et al.	
		US- 6,212,574		04-03-2001	O'Rourke et al.	
		US- 6,307,559		10-23-2001	Hancock et al.	
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		US-				

FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> –Number <sup>4</sup> –Kind Code <sup>5</sup> (if known)				
		EP0600204	06-08-94	Narayanaswami		
		WO 01/61992	08-23-01	Pritchett et al.		
		WO 02/067577	08-29-02	Perlman		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO (Modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/694,144	
			Filing Date	10/27/2003	
			First Named Inventor	Stephen J. Estrop	
			Group Art Unit		
			Examiner Name		
Sheet	2	of	3	Attorney Docket Number	MS1-1679US

OTHER DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Foreign Search Report for EP 03 00 5836, dated December 15, 2004, 3 pages.	
		Foreign Search Report for EP 03 008706, dated December 15, 2004, 3 pages.	
		US Patent Application 10/273,505, filed October 18, 2002, entitled "Methods and Apparatuses for Facilitating Processing of Interlaced Video Images for Progressive Video Displays," Stephen Estrop, 73 pages.	
		US Patent Application 10/400,040, filed March 25, 2003, entitled "Facilitating Interaction between Video Renderers and Graphics Device Drivers," Stephen Estrop, 85 pages.	
		US Patent Application 10/987,378, filed November 12, 2004, entitled "Image Processing Using Linear Light Values and Other Image Processing Improvements," Munsil et al., 95 pages.	
		US Patent Application 10/902,325, filed July 29, 2004, entitled "Strategies for Processing Image Information Using a Color Information Data Structure," Evans et al., 94 pages.	
		Charles Poynton, <i>Digital Video and HDTV: Algorithms and Interfaces</i> , Morgan Kaufmann Publishers, 2003, table of contents, pp. xi to xxiii, and chapter 24, pp. 281-300.	
		DAVID UNION, "Accessing Device Drivers from C#," Windows Developer Magazine, available at < <a href="http://www.wd-mag.com">www.wd-mag.com</a> >, Vol. 13, No. 4, April 2002, pp. 19, 20, 22, 23, 26, 27.	
		HUI Xin-biao, DONG Yong-qiang, QI Dan-qing, "Implementation of MPEG stream analyzer," Journal of China Institute of Communications, Vol. 22, No. 10, October 2001, pp.57-62.	
		HE Yong-yi, XIA Jun-sheng, FANG Ming-lun, "Development and Application of the NT Device Driver in CNC System," Journal of Shanghai University (English Edition), ISSN 1007-6417, Vol. 5, No. 4 (Dec. 2001), pp. 317-321.	
		MARK G. RAWLINS, "A Standards Solution to Your Graphics Problems," Graphic Software Systems, Inc., Frontiers in Computer Graphics, Proceedings of Computer Graphics Tokyo '84, copyright by Springer-Verlag Tokyo 1985, pp. 375-416.	
		Adrian Ford and Alan Roberts, "Colour Space Conversions," dated August 11, 1998, available at < <a href="http://www.poynton.com/PDFs/coloureq.pdf">http://www.poynton.com/PDFs/coloureq.pdf</a> >, accessed on July 28, 2004, 31 pages.	
		Charles Poynton, "Frequently Asked Questions about Gamma," 1998, available at < <a href="http://www.poynton.com/PDFs/GammaFAQ.pdf">http://www.poynton.com/PDFs/GammaFAQ.pdf</a> >, accessed on July 28, 2004, 12 pages.	
		Charles Poynton, "Frequently Asked Questions about Color," 1997, available at < <a href="http://www.poynton.com/PDFs/ColorFAQ.pdf">http://www.poynton.com/PDFs/ColorFAQ.pdf</a> >, accessed on July 28, 2004, 24 pages.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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			Application Number	10/694,144	
			Filing Date	10/27/2003	
			First Named Inventor	Stephen J. Estrop	
			Group Art Unit		
			Examiner Name		
Sheet	3	of	3	Attorney Docket Number	MS1-1679US

OTHER DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Patent Abstracts of Japan, Publication No. 2000311240, Vol. 2000, No. 14, Publication date November 7, 2000.	
		Patent Abstracts of Japan, Publication No. 2001084154, Vol. 2000, No. 20, Publication date March 30, 2001.	
		Don Musil and Stacey Spears, "The Chroma Upsampling Error and the 4:2:0 Interlaced Chroma Problem," Secrets of Home Theater and High Fidelity, DVD Benchmark, accessible at << <a href="http://www.hometheaterhifi.com/volume_8_2/dvd-benchmark-special-report-chroma-bug-4-2001.html">http://www.hometheaterhifi.com/volume_8_2/dvd-benchmark-special-report-chroma-bug-4-2001.html</a> >>, April 2001, December 2002, January 2003, 20 pages.	
		"YCbCr to RGB Considerations," Intersil Application Note, AN9717, March 1997, available at << <a href="http://www.intersil.com/data/an/an9717.pdf">http://www.intersil.com/data/an/an9717.pdf</a> >>, 2 pages.	
		"Understanding Analog Video Signals," Dallas Maxim, Application Note 1184, available at << <a href="http://www.maxim-ic.com/appnotes.cfm/appnote_number/1184">http://www.maxim-ic.com/appnotes.cfm/appnote_number/1184</a> >>, September 4, 2002, 12 pages.	
		Introductory page entitled "An Introduction to QuickTime™," available at << <a href="http://developer.apple.com/quicktime/qttutorial/overview.html">http://developer.apple.com/quicktime/qttutorial/overview.html</a> >>, accessed on January 13, 2005, 2 pages.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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